

## CLAIMS:

1. An illumination system for illuminating a display device, comprising a light-emitting panel (1) and a light source for coupling light into the light-emitting panel (1), said light source including a low-pressure mercury-vapor discharge lamp (6; 7), characterized in that the light source further comprises a plurality of light-emitting diodes (8, 8'; ...; 9, 9'; ...) for selectively setting the color temperature of the light emitted by the light source.

2. An illumination system as claimed in claim 1, characterized in that the light-emitting diodes (8, 8'; ...; 9, 9'; ...) comprise a light emission wavelength for selectively increasing the color temperature of the light emitted by the light source.

3. An illumination system as claimed in claim 2, characterized in that the color temperature of the light emitted by the light source can be set so as to range from 6,000 K to 11,000 K.

4. An illumination system as claimed in claim 1, characterized in that the light-emitting diodes (8, 8'; ...; 9, 9'; ...) comprise predominantly a blue light emission wavelength.

5. An illumination system as claimed in claim 1 or 2, characterized in that each one of the light-emitting diodes (8, 8'; ...; 9, 9'; ...) comprises a luminous flux of at least 5 lm.

6. An illumination system as claimed in claim 1 or 2, characterized in that the illumination system comprises control electronics for changing the luminous flux of the light-emitting diodes (8, 8'; ...; 9, 9'; ...).

25 7. A display device comprising an illumination system as claimed in claim 1 or 2.